



AMENDMENT TRANSMITTAL LETTER			CLIENT-MATTER NO.: 66765-110 (P-UW 4978)
SERIAL NO: 09/972,834	FILING DATE: 10/4/2001	EXAMINER: J. Fredman	GROUP ART UNIT: 1637 CONFIRMATION NO.: 544
INVENTION: THERMOSTABLE POLYMERASES HAVING ALTERED FIDELITY AND METHODS OF IDENTIFYING AND USING SAME			

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Transmitted herewith is a Response to the Communication mailed  
January 13, 2003, in the above-identified application.

- Small Entity status of this application has been  
established under 37 CFR 1.27.
- X Petition for Three-Month Extension of Time is enclosed  
(in duplicate).
- Terminal Disclaimer with fee under 37 C.F.R. 1.20(d) is  
enclosed.
- X No additional claims fee is required.
- An additional claims fee is required and has been  
calculated as shown below:

CLAIMS AS AMENDED

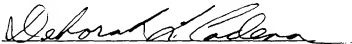
	NUMBER AFTER AMEND- MENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	NUMBER OF EXTRA CLAIMS PRESENTED			RATE		FEE	
						SMALL ENTITY	OTHER ENTITY	SMALL ENTITY	OTHER ENTITY
TOTAL CLAIMS	45	- 45	- 0	X	\$9	\$18	= \$	\$0.00	
INDEPEN- DENT CLAIMS	4	- 4	- 0	X	\$42	\$84	= \$	\$0.00	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM		— YES	— XX NO		\$140	\$280	= \$	\$0.00	
TOTAL ADDITIONAL FEE								\$	\$0.00

- \* If the "HIGHEST NUMBER PREVIOUSLY PAID FOR" is less than 20, write "20" in  
this space.
- \*\* If the "HIGHEST NUMBER PREVIOUSLY PAID FOR" is less than 3, write "3" in  
this space.
- \*\*\* If the difference between the "NUMBER AFTER AMENDMENT" and the "HIGHEST  
NUMBER PREVIOUSLY PAID FOR" is less than 0, write "0" in the space.

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- X Please charge my Deposit Account No. 502624 the amount of \$930.00, which covers the fee for a three-month extension of time. A duplicate copy of this sheet is enclosed.
- X The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 502624. A duplicate copy of this sheet is enclosed.
- X The Commissioner is hereby authorized to charge to Deposit Account No. 502624 any fees under 37 CFR 1.17 which may be required under 37 CFR 1.136(a)(3) for an extension of time in any concurrent or future reply requiring a petition for extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



Deborah L. Cadena  
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McDERMOTT, WILL & EMERY  
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PATENT

Client-Matter No.: 66765-110 (P-UW 497)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
Loeb et al.

Serial No: 09/972,834

Filed: October 4, 2001

For: THERMOSTABLE POLYMERASES  
HAVING ALTERED FIDELITY AND  
METHODS OF IDENTIFYING AND  
USING SAME

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

) Confirmation No.: 5445  
) Group Art Unit: 1637  
) Examiner: J. Fredman

) CERTIFICATE OF MAILING BY "EXPRESS MAIL"

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CHRISTINE M. GRACE

(TYPED OR PRINTED NAME OF PERSON MAILING PAPER OR FEE)

*Christine M. Grace*  
(SIGNATURE OF PERSON MAILING PAPER OR FEE)

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RESPONSE TO COMMUNICATION

Responsive to the Communication mailed  
January 13, 2003, consideration of the following remarks is  
respectfully requested.

The Communication indicates that the previously filed  
response to the outstanding Restriction Requirement was not fully  
responsive because no species election was made. It was pointed  
out in the previous response filed December 4, 2002, that new  
claims 51-95 recite polymerase mutants issued in parent  
application serial No. 08/978,806, now U.S. Patent No. 6,395,524.  
In light of the previous allowance of the polymerase mutants  
recited in the presently claimed compositions, it is respectfully  
submitted that examination of the currently elected species as  
well as additional species would not be an undue burden on the  
Examiner.

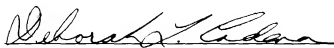
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Applicants elect the polymerase species Arg660Lys. The claims readable on the elected species are claims 51-58 and 67.

It is respectfully submitted that the response filed herewith complies with the requirement set forth in the Communication mailed January 13, 2003, and is fully responsive to the species election requirement. The Examiner is invited to call the undersigned agent or Cathryn Campbell if there are any questions.

Respectfully submitted,

May 13, 2003  
Date

  
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